

Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-32. (Canceled)

33. (Previously Presented) An infrastructure element for providing broadcast transmissions in a communication network, the infrastructure element comprising:

- means for joining an external multicast tree;
- means for joining an internal multicast tree;
- means for receiving a first multicast transmission over the external multicast tree, wherein the first multicast transmission identifies a selected content source as a source of the first multicast transmission;
- means for encapsulating the first multicast transmission to form an encapsulated packet;
- and
- means for transmitting the encapsulated packet over the internal multicast tree in a second multicast transmission, wherein the second multicast transmission identifies the infrastructure element as a source of the second multicast transmission.

34. (Previously Presented) The infrastructure element of claim 33, wherein said means for encapsulating comprises:

- means for compressing the first multicast transmission to form a compressed frame packet; and
- means for encapsulating the compressed frame packet to form the encapsulated packet.

35. (Previously Presented) The infrastructure element of claim 34, wherein said means for encapsulating the compressed frame packet comprises means for encapsulating the compressed frame packet utilizing a framing protocol.

36. (Previously Presented) An apparatus configured to provide broadcast transmissions in a communication network, the apparatus comprising:

a processor coupled to circuitry configured to:

join an external multicast tree;

join an internal multicast tree;

receive a first multicast transmission over the external multicast tree, wherein the first multicast transmission identifies a selected content source as a source of the first multicast transmission;

encapsulate the first multicast transmission to form an encapsulated packet; and

transmit the encapsulated packet over the internal multicast tree in a second multicast transmission, wherein the second multicast transmission identifies the infrastructure element as a source of the second multicast transmission.

37. (Previously Presented) The apparatus of claim 36, wherein the processor coupled to the circuitry are further configured to:

compress the first multicast transmission to form a compressed frame packet; and

encapsulate the compressed frame packet to form the encapsulated packet.

38. (Previously Presented) The apparatus of claim 37, wherein the processor coupled to the circuitry are further configured to encapsulate the compressed frame packet utilizing a framing protocol.

39. (Previously Presented) A method for providing broadcast transmissions in a communication network, the method comprising:

joining an external multicast tree;

joining an internal multicast tree;

receiving a first multicast transmission over the external multicast tree, wherein the first multicast transmission identifies a selected content source as a source of the first multicast transmission;

encapsulating the first multicast transmission to form an encapsulated packet; and

transmitting the encapsulated packet over the internal multicast tree in a second multicast transmission, wherein the second multicast transmission identifies the infrastructure element as a source of the second multicast transmission.

40. (Previously Presented) The method of claim 39, wherein said encapsulating comprises:

compressing the first multicast transmission to form a compressed frame packet; and
encapsulating the compressed frame packet to form the encapsulated packet.

41. (Previously Presented) The method of claim 41, wherein said encapsulating the compressed frame packet comprises encapsulating the compressed frame packet utilizing a framing protocol.

42. (Previously Presented) A computer program product for providing broadcast transmissions in a communication network, the computer program product comprising:

a computer-readable medium encoded with codes executable to:

join an external multicast tree;

join an internal multicast tree;

receive a first multicast transmission over the external multicast tree, wherein the first multicast transmission identifies a selected content source as a source of the first multicast transmission;

encapsulate the first multicast transmission to form an encapsulated packet; and

transmit the encapsulated packet over the internal multicast tree in a second multicast transmission, wherein the second multicast transmission identifies the infrastructure element as a source of the second multicast transmission.

43. (Previously Presented) The computer program product of claim 42, wherein said codes executable to encapsulate comprise codes executable to:

compress the first multicast transmission to form a compressed frame packet; and

encapsulate the compressed frame packet to form the encapsulated packet.

44. (Previously Presented) The computer program product of claim 43, wherein said codes executable to encapsulate the compressed frame packet comprises codes executable to encapsulate the compressed frame packet utilizing a framing protocol.

45. (Withdrawn) An infrastructure element for providing broadcast transmissions from a wired communication network to a wireless communication network, the infrastructure element comprising:

- means for establishing one or more secure tunnels to communicate with one or more infrastructure entities, respectively, of the wireless communication network;

- means for joining a multicast tree associated with the wired communication network;

- means for receiving a multicast transmission over the multicast tree, wherein the multicast transmission comprises an encapsulated packet; and

- means for transmitting the encapsulated packet over the one or more secure tunnels.

46. (Withdrawn) The infrastructure element of claim 45, further comprising means for receiving requests from the one or more one or more infrastructure entities to join the multicast tree.

47. (Withdrawn) The infrastructure element of claim 45, wherein the multicast transmission identifies its source as an intermediate node and the encapsulated packet identifies its source as a selected content source of the wired communication network.

48. (Withdrawn) An apparatus for providing broadcast transmissions from a wired communication network to a wireless communication network, the apparatus comprising:

- a processor coupled to circuitry configured to:

- establish one or more secure tunnels to communicate with one or more infrastructure entities, respectively, of the wireless communication network;

- join a multicast tree associated with the wired communication network;

- receive a multicast transmission over the multicast tree, wherein the multicast transmission comprises an encapsulated packet; and

- transmit the encapsulated packet over the one or more secure tunnels.

49. (Withdrawn) The apparatus of claim 48, wherein the processor coupled to the circuitry are further configured to receive requests from the one or more one or more infrastructure entities to join the multicast tree.

50. (Withdrawn) The apparatus of claim 48, wherein the multicast transmission identifies its source as an intermediate node and the encapsulated packet identifies its source as a selected content source of the wired communication network.

51. (Withdrawn) A method for providing broadcast transmissions from a wired communication network to a wireless communication network, the method comprising:

- establishing one or more secure tunnels to communicate with one or more infrastructure entities, respectively, of the wireless communication network;

- joining a multicast tree associated with the wired communication network;

- receiving a multicast transmission over the multicast tree, wherein the multicast transmission comprises an encapsulated packet; and

- transmitting the encapsulated packet over the one or more secure tunnels.

52. (Withdrawn) The method of claim 51, further comprising receiving requests from the one or more one or more infrastructure entities to join the multicast tree.

53. (Withdrawn) The infrastructure element of claim 51, wherein the multicast transmission identifies its source as an intermediate node and the encapsulated packet identifies its source as a selected content source of the wired communication network.

54. (Withdrawn) A computer program product for providing broadcast transmissions from a wired communication network to a wireless communication network, the computer program product comprising:

- a computer-readable medium encoded with codes executable to:

- establish one or more secure tunnels to communicate with one or more infrastructure entities, respectively, of the wireless communication network;

join a multicast tree associated with the wired communication network;
receive a multicast transmission over the multicast tree, wherein the multicast transmission comprises an encapsulated packet; and
transmit the encapsulated packet over the one or more secure tunnels.

55. (Withdrawn) The computer-readable medium of claim 54, further encoded with codes executable to receive requests from the one or more one or more infrastructure entities to join the multicast tree.

56. (Withdrawn) The computer-readable medium of claim 54, wherein the multicast transmission identifies its source as an intermediate node and the encapsulated packet identifies its source as a selected content source of the wired communication network.